

## Claims

1. Method for non-destructive testing of carbide-containing alloys, with near-surface oxide areas (9) of oxidated carbides being  
5 determined by means of eddy-current measurement.
2. Method for non-destructive testing of a gas turbine blade (1)  
of a carbide-containing alloy, with the near-surface oxide areas (9)  
of oxidated carbides being determined by means of eddy-current  
10 measurement.
3. Method in accordance with Claim 2,  
with the alloy being a nickel- or cobalt-based superalloy.
- 15 4. Method for the manufacture of a gas turbine blade (1), with a  
main body (5) of the gas turbine blade (1) being cast, the surface  
(3) of the main body (5) being cleaned and activated for the  
application of an anti-corrosive coating (7), and the anti-corrosive  
coating (7) then being applied, with the surface being tested for  
20 the presence of oxide areas of oxidated carbides using eddy-current  
measurement after the casting and before the cleaning and  
activating.
5. Method in accordance with Claim 4,  
25 with the main body (5) consisting of a nickel- or cobalt-based  
superalloy.
6. Method in accordance with Claim 5,  
with the protective coating (7) consisting of a MCrAlY type of  
30 alloy, with M being selected from the (Fe, Co, Ni) group, Cr chrome,  
Al aluminum and Y from the (Y, La, rare earths) group.

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7. Method for non-destructive testing of a nickel- or cobalt-based alloy with near-surface sulfidized corrosion areas (9) being determined by means of eddy-current measurements.

- 5 8. Method of non-destructive testing of a gas turbine blade (1) of nickel- or cobalt-based alloy, with the near-surface sulfidized corrosion areas (9) being determined by means of eddy-current measurements.

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